PARALLELIZED CRC CALCULATION METHOD AND SYSTEM

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ABSTRACT OF THE DISCLOSURE

A method and system for CRC calculation to an input message is provided while improving the process time and simple
10 to implement. A linear mapping matrix corresponding to the LFSR to generate the CRC is planning, and the computation of the LFSR to the input message for the CRC generation becomes a simplified matrix multiplication. In the word-wise and doubleword-wise CRC32 cases, the input messages are padded
15 with specific dummies before the prefix of the input message in accordance with their length types on the transmission side, or the CRC outputs derived from the received messages are compared with specific patterns in accordance with their length types on the reception side.

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